

# A. J. Rogers, Spike Machine,

N<sup>o</sup> 54,605.

Patented May. 8, 1866.

Fig: 1.

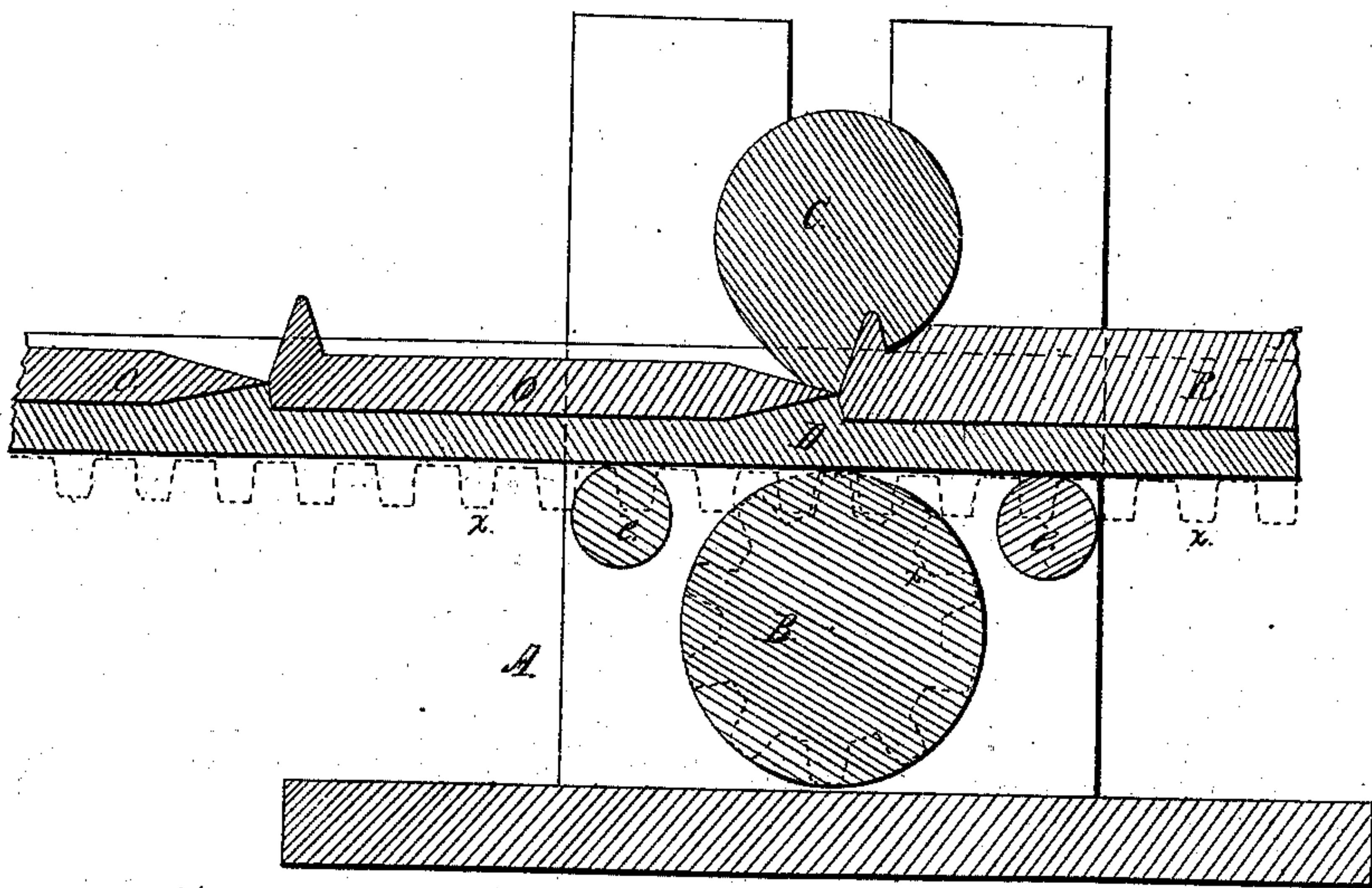


Fig: 2.

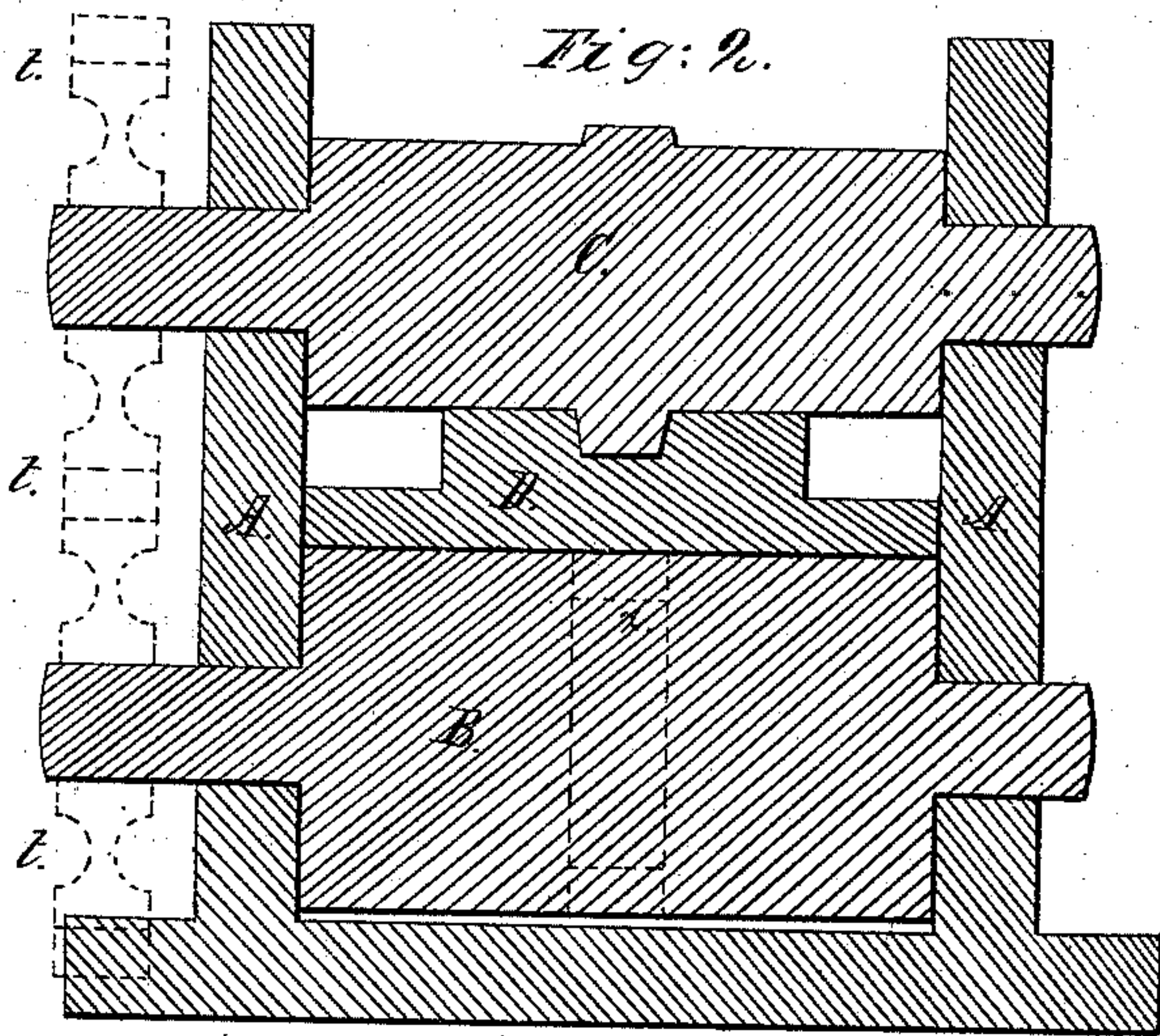
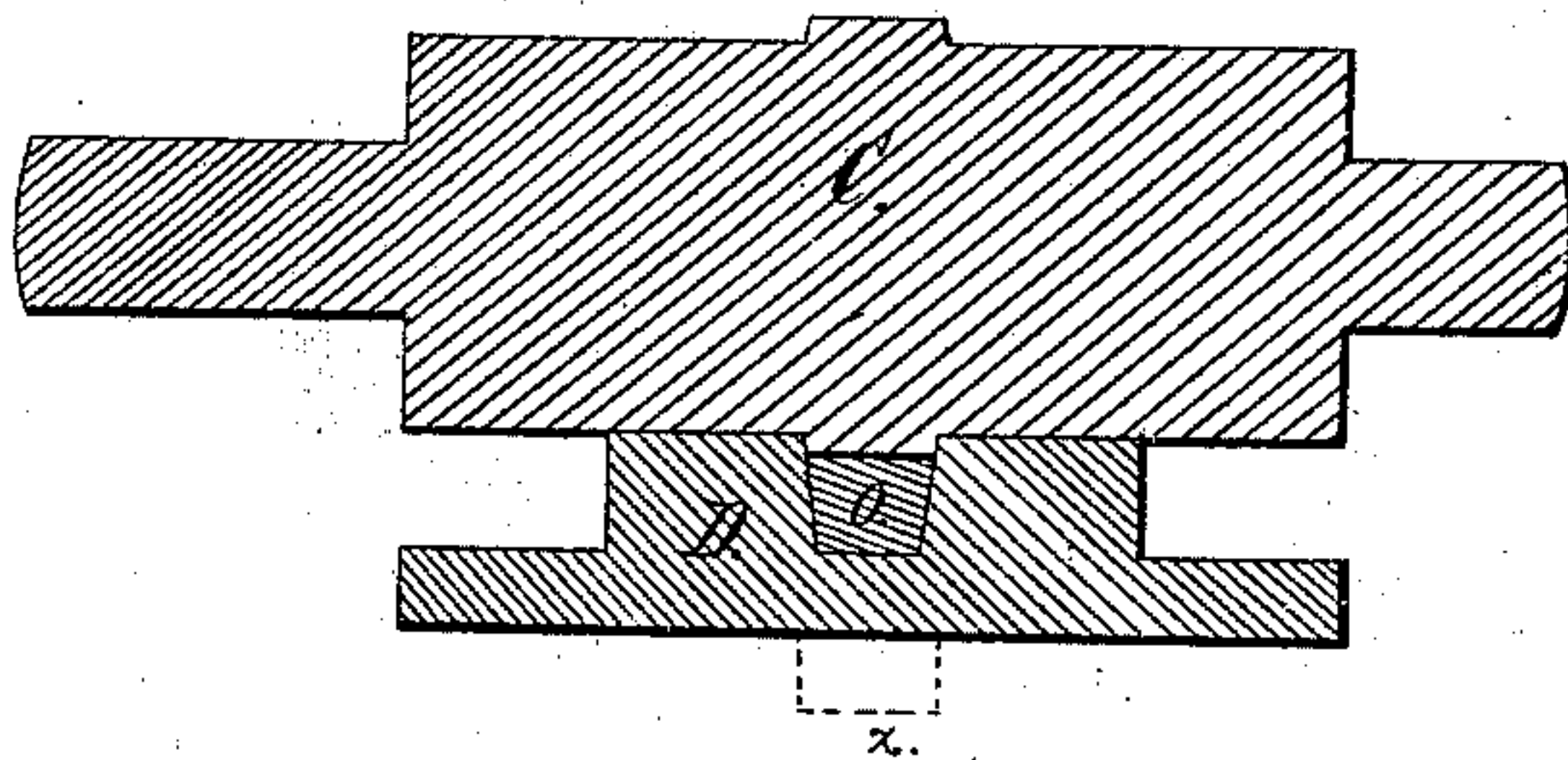


Fig: 3.



Witnesses:  
James J. Johnston  
Alexander Hays

Inventor:  
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# UNITED STATES PATENT OFFICE.

AMBLER J. ROGERS, OF KITTANNING, PENNSYLVANIA.

## IMPROVED MACHINE FOR ROLLING SPIKES.

Specification forming part of Letters Patent No. 54,605, dated May 8, 1866.

*To all whom it may concern:*

Be it known that I, AMBLER J. ROGERS, of Kittanning, in the county of Armstrong and State of Pennsylvania, have invented a new and useful Improvement in Machines for Making Spikes; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention consists in the combination and arrangement of a die-table and rolls, said table and rolls being constructed, arranged, and operating in the manner hereinafter described.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the accompanying drawings, Figure 1 represents a transverse section of the rolls and a longitudinal section of the die-table. Fig. 2 represents a longitudinal section of the roll and a transverse section of the die-table. Fig. 3 represents a longitudinal section of the roll which operates in connection with the die-table in forming the spike—that is to say, the roll C, by its peculiar contour, forms one side, and the head of the spike *o* and the table D, with its die, form the other three sides of the spike, as shown in Fig. 3. The rolls B and

C are geared together, as indicated by the dotted lines marked *t*. The table D and the rolls B should be furnished with cogs which gear into each other, as indicated by the dotted lines marked *x*.

*e* represents supporting-rolls for the table, and are used for the purpose of preventing the table D from tilting or getting out of line. A represents the bearings for the rolls. R represents the bar of heated iron for forming the spikes.

The size and manner of constructing the several parts described I leave to the skill and judgment of the mechanic, who will readily see and understand the construction and operation of the various parts and the relation they bear to each other by reference to the accompanying drawings.

Having thus described the nature, construction, and operation of my improvement, what I claim as of my invention is—

The combination of the roll C with the table D, said roll and table being constructed, arranged, and operating in the manner substantially as herein described, and for the purpose set forth.

A. J. ROGERS.

Witnesses:

JAMES J. JOHNSTON,  
ALEXANDER HAYS.